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ILCE-3000K/B

a3000 Interchangeable Lens Digital Camera

Specifications

Lens Compatibility	Sony E-mount, Sony A-mount lenses (via optional LA-EA3/LA-EA4 adaptor)
Lens Mount	Sony E-mount
Camera Type	Interchangeable Lens Digital SLR camera

Imaging Sensor	Exmor® APS HD CMOS sensor (23.5 X 15.6mm)
Processor	BIONZ™ image processor
Anti Dust	Charge protection coating on Optical Low-pass Filter
Pixel Gross	20.4M pixels (approx.)
Effective Picture Resolution	20.1M pixels (approx.)
Focal Length Conversion Factor	1.5x
Color Filter System	RGB primary color filters

Media Type	Memory Stick PRO Duo™/Pro-HG Duo™ media; SD, SDHC and SDXC memory card
Color Space	Stills: sRGB, AdobeRGB Movie: sRGB standard (with sYCC gamut) and Adobe RGB standard compatible with TRILUMINOS™ Color
Still Image Mode	JPEG (Standard, Fine), RAW+JPEG
Still Image Max Effective Resolution	20.1 Megapixels
Still Image Size 16:9	L (17 MP) 5456 x 3064, M (12 MP) 3872 x 2176, S (4.2 MP) 2736 x 1824
Still Image Size 3:2	L (20 MP) 5456 x 3632, M (10 MP) 3872 x 2576, S (5 MP) 2736 x 1824
Panorama Still Image Size	Horizontal Wide: 12,416 x 1,856 (23M) Horizontal Std.: 8,192 x 1,856 (15M) Vertical Wide: 2,160 x 5,536 (12M) Vertical Std.: 2,160 x 3,872 (8.4M)
Video Mode	AVCHD™ / MP4 (MPEG-4 AVC (H.264))
Video Resolution	AVCHD™: FX - 1920 x 1080/60i@24Mbps FH - 1920 x 1080/60i@17Mbps FX - 1920 x 1080/24p@24Mbps FH - 1920 x 1080/24p@17Mbps MP4: HD - 1440 x 1080/ 30p@12Mbps VGA - 640 x 480/ 30p@3Mbps
Video Signal	NTSC color, EIA standards
Audio Format	Dolby Digital (AC-3) / MPEG-4 AAC-LC
Microphone/Speaker	Built-in Stereo Microphone/ Built-in monaural speaker; volume settings in 8 steps between 0 and 7
Still Image File Format	JPEG (DCF Ver. 2.0, Exif Ver.2.3, MPF Baseline compliant), RAW (Sony ARW 2.3format)

Lens Type	Sony E-mount
Lens Mount Type	Sony E-mount

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Lens Stabilization	Optical SteadyShot
Aperture (Max.)	F3.5 - 5.6
Aperture (Min.)	F22 - F32
Optical Zoom	Approx. 3x
Digital Zoom	20.1M pixels (approx.) Yes, approx. 4x
Focal Length (35mm equivalent)	27 - 82.5 mm
Filter Diameter	49mm
Lens Groups-Elements	9/11
Minimum Focus Distance	9-13/16 in. (.25m)
AF for Movie Capture	Contrast AF
Angle of View	76° - 29°
Aperture Blade	7
Aspheric Elements	3 elements
Dimensions (Max. Diameter x Length)	2-1/2 x 2-3/8 in. (62 x 60 mm)
Direct Manual Focus	Yes
Exterior Finish	Black
Internal Motor	Yes
Lens Weight	6.9 oz. (194 g.)
Low Noise During Movie Capture	Yes
Maximum Magnification	0.3x
EV Compensation	Still images: +/-3.0 EV(1/3EV steps selectable) Movies: +/-2.0 EV(1/3EV steps selectable)
Macro Mode	Yes
Magnification	0.3x

Type	1/5-inch (0.5 cm) color electronic viewfinder
Diopter Adjustment	-4.0 m-1 ~ +3.5 m-1 (diopter)
Field of View	100%
Magnification	Approx. 0.7x with 50 mm lens at infinity, -1 m-1 (diopter)

LCD Type	3.0” (7.5cm) TFT LCD (230,400 dots)
Angle Adjustment	Auto, Manual (5 steps between -2 to +2)
Coverage	100%
Live View	Continuous Live View
Real-time image adjustment display	Yes(On/Off)
Histogram	Yes (On/off)
Peaking	Yes (Level setting: High/Mid/Low/Off, Color: White/Red/Yellow)
Grid Display	Yes (Rule of Thirds, 4x6 Square, Diagonal & 4x6 Square Grids, Off)
Customization	Grid, Histogram display, Grid Line, Magnified display for playback

Focus System	Contrast-detect AF
Focus Points	25 points (contrast-detection AF)
AF Modes	Single-shot AF(AF-S), Continuous AF(AF-C), Auto Focus, Direct Manual Focus (DMF), Manual Focus
Focus Area	Multi Point (25 points)/ Center-weighted/ Flexible Spot
Focus Sensitivity	EV 0 to 20 EV (at ISO100 equivalent, with F2.8 lens attached)
Manual Focus Assist	MF Assist (4.8x, 9.6x)
Focus Features	Predictive control (AF-A, AF-C), Focus Lock
AF Illuminator	Yes (with built-in LED type)

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Picture Effect(s)	11 modes (15 effects): Posterization (Color, B/W), Pop Color, Retro Photo, Partial Color (R,G,B,Y), High Contrast Mono, Toy Camera, Soft High-key, Soft Focus, HDR Painting, Rich-tone Mono, Miniature
Auto Exposure Lock	Yes (AE Lock button). Can be disabled from menu
Color Temperature	2500 – 9900K with 15-step each Magenta/Green compensation (G7 to M7), Amber/Blue (A7 to B7), Custom
Creative Style	Standard, Vivid, Portrait , Landscape, Sunset, Black & White (Contrast (-3 to +3steps), Saturation(-3 to +3steps), Sharpness(-3 to +3steps)
D-Range Optimizer	Yes: (Auto, Level, Off)
Exposure Bracketing	3 continuous or single shots in 1/3 or 2/3 EV steps
Exposure Compensation	Still images: +/-3.0 EV(1/3EV steps selectable) Movies: +/-2.0 EV(1/3EV steps selectable)
Exposure Settings	iAUTO, Superior Auto, Programmed AE (P), Aperture priority (A), Shutter-speed priority (S), Manual (M), Sweep Panorama, Scene Selection
ISO	Stills: ISO 100-16000 selectable in 1 EV steps, Auto (100-3200) Movies: ISO 100-3200 selectable in 1 EV steps, Auto (200-3200)
Metering	Advanced 1200-zone evaluative metering
Metering Modes	Multi-segment, Center-weighted, Spot
Metering Sensitivity	EV 0 to 20 EV (at ISO100 equivalent, with F2.8 lens
Noise Reduction	Long exposure NR: available of shutter speeds longer than 1 sec.
Scene Mode(s)	Portrait, Landscape, Macro, Sports Action, Sunset, Night Portrait, Night View, Hand-held Twilight, Anti Motion Blur
White Balance Mode	Auto, Daylight, Shade, Cloudy, Incandescent, Fluorescent, Flash, Color temperature range 2500 to 9900K, Custom

Burst Buffer	JPEG Standard (30 shots) JPEG Fine (13 shots) RAW+JPEG (5 shots)
Continuous Shooting Speed	Continuous mode: 2.5 fps, Speed Priority Continuous mode: 3.5 fps
Drive Mode	Single-shot, Continuous, Speed Priority Continuous, Self-timer (10/2 sec. delay), Self-timer (Cont.) (with 10 sec. delay; 3/5 exposures), Bracketing
Self-timer	2-sec. or 10-sec. delay
Shutter Speeds	1/4000 to 30 seconds, bulb
Shutter Type	Electronically-controlled, vertical-traverse, focal-plane shutter

Flash Bracketing	±2.0 EV
Flash Compensation	±2.0 EV (switchable between 1/3 EV steps)
Flash Coverage	16 mm (focal length printed on lens body)
Flash Metering System	Pre-flash TTL
Flash Modes	Flash off, Auto flash, Fill-flash, Slow Sync., Rear Sync.
Flash Type	Built-in, Pop-up Auto
Guide Number	6 (in meters at ISO200) 4 (in meters at ISO100)
Recycling Time	Approx. 3 sec.

Self Timer	Yes
Red-Eye Reduction	Yes
Erase/Protect	Yes
Media/Battery Indicator	Yes
Power Save Mode	Yes
Still Image Playback Options	Slideshow, Panorama scrolling, Folder selection (Still)
Video Playback Options	Forward/Rewind (movie)
Multiple Language Display	Yes

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View & Index	Single (with or without shooting information), RGB histogram and highlight/shadow warning, 4/9-frame index view, Enlarged display mode (L: 13.6x, M: 9.9x, S: 6.8x), Auto Review (10/5/2sec, Off), Image orientation (On/Off), Slideshow, Panorama scrolling, Folder selection (still), Forward/Rewind (movie), Delete, Protect

Face Detection	On, Off, Face Registration, Face Selection; maximum eight faces detected
Smile Shutter™ technology	Smile shutter (selectable from 3 steps)
Image Stabilization	Lens-based (where applicable)
Intelligent Auto	Yes
Superior Auto	Yes
Tracking Focus	Yes
Anti Motion Blur	Yes
Auto High Dynamic Range	Yes, (Auto Exposure Difference, Exposure difference Level (1-6 EV at 1.0 EV step), off)
Photo Creativity	Yes
Priority Setting (for Face Detection)	Yes (eight faces max)
Shooting Tips	Yes
Sweep Panorama	Horizontal (Wide/Standard), Vertical (Wide/Standard)

Remote Commander	Yes, via optional RM-VPR1
Accessory Shoe	Yes, via Multi Interface Shoe
PictBridge Compatible	Yes
A/V Remote Terminal	Yes, via Multi Terminal interface
DC IN	Yes via optional AC-PW20AM (sold separately)
Memory Card Slot	Dual compatibility slot: Memory Stick PRO Duo™ /Pro-HG Duo™ /PRO-HG HX Duo™ media - SD, SDHC and SDXC memory card
Tripod Mount	Yes, 1/4" (20 thread count)
USB Port(s)	USB 2.0 Hi-speed (mass-storage, MTP)

Dimensions (Approx.)	Approx. 5-1/8 × 3-5/8 × 3-3/8 (128.0 x 90.9 x 84.5 mm) (W/H/D) excluding protrusions
Weight (Approx.)	With battery and Memory Stick PRO Duo Approx. 14.5 oz. (411 g)
Weight(Approx) (Main unit only)	Approx. 12.5 oz. (353 g)

Battery Type	InfoLITHIUM® NP-FW50 (7.2V)
Battery Capacity	1080 mAh
Number of Still Images	Approx. 480 images with LCD monitor (CIPA standard)
Power Requirements	One rechargeable battery pack (NP-FW50)
External Power	Yes via optional AC-PW20AM (sold separately)
Power Consumption (in LCD Screen Operation)	Still images: approx.1.9W(with E 18-55mm F3.5-5.6 OSS lens attached), Movies: approx.3W(with E 18-55mm F3.5-5.6 OSS lens attached)
Power Consumption (in View Finder Operation)	Still images: approx.2.0W(with E 18-55mm F3.5-5.6 OSS lens attached), Movies: approx.3W(with E 18-55mm F3.5-5.6 OSS lens attached)

Supplied Software	Supplied Software: PlayMemories Home, Image Data Converter Version 4
Operating System Compatibility	Operating System Compatibility: Windows® XP SP3 (64-bit and Starter Editions are not supported, Windows Image Mastering API(IMAPI) Ver.2.0 or later is required to use the function for creating discs.) Windows Vista® SP2 (Starter Edition is not supported) Windows® 7 SP1; Windows® 8; Mac OS X(v10.5 -v10.8) (Image Data Converter, PlayMemories Home is not Mac compatible)

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Supplied Accessories	**SEL1855 lens** **Lens cap** **Rechargeable battery (NP-FW50)** **AC adaptor (AC-UB10)** **Shoulder strap** **Body cap** **Micro USB cable**

1.Records in up to 29 minutes segments.
5. Attaching Sony A-mount lens requires LA-EA1 (note: Autofocus available with SSM and SAM series lenses when using LA-EA1) or LA-EA2 adaptors (sold separately).
7. Actual performance varies based on settings, environmental conditions, and usage. Battery capacity decreases over time and use.
9. Auto Focus function available with Sony E-Mount lenses and Sony A-mount SSM and SAM series lenses when using LA-EA1.
10. Files compatible with iMovie® '09 or later on Mac. Software not compatible with Mac OS® X.
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